

# Parking Facilities Stormwater Management Program

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September 26, 2008

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#### 1.0 Program Overview

The County of Sacramento's Municipal Separate Storm Sewer Systems (MS4) Permit (see Appendix A) requires inspection and maintenance procedures for County-owned parking facilities exposed to rainfall. The purpose of this requirement is to prevent the buildup of debris and excessive oil on parking lot surfaces. Pollutants such as oil, grease, and sediment can accumulate on parking lot surfaces. These pollutants may come in contact with rainfall or stormwater runoff and be carried to local creeks and rivers.

The Sacramento County Airport System (SCAS) owns, utilizes, or maintains parking facilities subject to this requirement. SCAS has developed and implemented the Parking Facilities Stormwater Management Program to meet the requirement. The purpose of this program is to implement procedures to reduce or eliminate the discharge of pollutants from SCAS parking facilities to our waterways.

The primary objectives of the Parking Facilities Stormwater Management Program is to:

- Conduct regular inspections of parking facilities to assess maintenance needs.
- Perform maintenance on parking facilities based on inspection observations to reduce source pollutants.

SCAS will document compliance activities for the previous fiscal year (July 1 through June 30) and submit an annual report to the County of Sacramento, Department of Water Resources (DWR), Stormwater Quality Program by August 1 of each year.

## 2.0 Program Administration

The SCAS Parking Facilities Stormwater Management Program is administered by the Planning and Environment Division and the Maintenance Division. The two divisions will provide oversight of the program and will be responsible for the following:

- Maintain and revise the program on as needed basis;
- Conduct annual visual inspections of all applicable parking lots;
- Coordinate maintenance activities;
- Document compliance activities and submit an annual report; and
- Act as an educational resource and provide guidance to SCAS employees and tenants.

#### 2.1 Contact Information

Program documents, compliance records, and annual reports are maintained by the following:

Division	Contact
Planning and Environment	Wendy Hoffspiegel Senior Environmental Coordinator 6900 Airport Blvd. Sacramento, CA 95837 (916) 874-0685
Maintenance	David Ramme Highway Maintenance Supervisor 7207 Earhart Dr. Sacramento, CA 95837 (916) 874-0731

#### 3.0 Parking Facilities Criteria

Parking facilities meeting the following criteria are included in the program:

- SCAS owned, utilized, or maintained;
- Exposed to rainfall;
- Temporary parking or storage of motor vehicles;
- Contains a minimum of 5,000 square feet (or with 25 or more parking spaces); and
- Stormwater runoff from the facility discharges to the storm drainage system.

Airports in SCAS' jurisdiction include Sacramento International Airport, Mather Airport, Executive Airport, and Franklin Field. SCAS is also contracted to operate and maintain the airfield portion of McClellan Air Park. Although Mather Airport is owned by the US Air Force, and Executive Airport is owned by the City of Sacramento, SCAS has decided to include them in their Parking Facilities Stormwater Management Program since they are utilized and maintained by SCAS. Parking facilities listed in Appendix B meet the above criteria and are included in the program. There are over 17,000 parking spaces in the SCAS Parking Facilities Stormwater Management Program.

The program does not include:

- Leased facilities and associated areas;
- Unpaved parking lots consisting of gravel (no asphalt or concrete)
- Covered parking lots (covered levels of parking garage)
- Parking lots closed (temporarily or permanently) due to construction activity;
- Paved areas used for storage of equipment; and
- Facilities where stormwater runoff does not discharge to the storm drainage system.

#### 4.0 Inspection and Maintenance Program

Annual inspections and maintenance of the parking facilities are to be performed prior to the rainy season (beginning October 1 of each year).

#### 4.1 Inspections

The following procedures shall be followed when conducting parking facility inspections:

- All parking lots meeting the criteria are inspected for stormwater compliance annually and maintenance will be conducted prior to October 1, the beginning of the rainy season.
- Schedule inspections to coincide with minimal usage of parking facilities and, if
  possible, during off hours. (Note that due to the nature of airports with travelers
  parking for extended periods of time and airport employees onsite throughout
  the day and night, most of the parking lots are occupied by vehicles 24 hours a
  day, 7days per week, 365 days per year.)
- Inspect parking surfaces for the presence of potential stormwater pollutants. Take appropriate action based on the guidance provided in Table 1.
- Complete the Parking Facility Inspection and Maintenance Form (Appendix C) to document inspection findings and maintenance activities.
- Maintain records of parking lot inspection and maintenance activities, including oil/water separators and sediment traps.

## 4.1.1 Inspections of Oil/Water Separators and Sediment Traps

At the Sacramento International Airport, the storm drain system for some of the parking lots flow into oil/water separators or sediment traps. These systems are pumped-out at least one time a year before the rainy season.

#### 4.2 Maintenance Activities

Maintenance activities are based on field inspections and observations. Typical pollutants and maintenance actions are described in Table 1.

	Table 1	
Pollutant	Maintenance Indicator	Action
Automotive Fluids	<ul> <li>Presence of free liquid, leaks, spills, drips, etc.</li> </ul>	Cleanup immediately with absorbent material.
	<ul> <li>Excessive/heavy buildup penetrated onto surface.</li> </ul>	<ul> <li>Use mechanical dry methods to clean polluted surface prior to October 1.</li> </ul>
Sediment	Any observed.	Sweep-up sediment prior to     October 1. Identify and mitigate     cause of sediment pollution.
	<ul> <li>Stormwater Oil/Water Separators and Sediment Traps</li> </ul>	Remove sediment when average depth of six inches has been reached in the storm vault.
Trash / Litter	Any observed.	Remove pollutants prior     October 1 and place in a     covered trash bin.
		Ensure trash pickup is adequate and schedule more frequent pickups if needed.
Leaves / Landscape Debris	Any observed	Sweep-up prior to October 1.

#### 4.2.1 Routine Maintenance

<u>Automotive Fluid Contaminated Surfaces</u> – Automotive fluids are to be cleaned up using dry cleaning methods such as granular absorbents, absorbent pads, rags, etc. Used absorbent materials are to be collected and properly disposed of. Used granular absorbent material is to be thoroughly swept up and disposed of on the same day that it was applied to the surface. The recovered spent absorbent will be disposed of as a hazardous waste.

<u>Street Sweeping</u> – SCAS owns and operates its own street sweeping machines. Street sweeping machines are routinely used in the parking lots to remove litter, sediment, and vegetation. The spoils are deposited into the street sweeper dump stations located at Sacramento International Airport and Mather Airport.

<u>Trash/Litter Collection</u> – Trash containers are provided at convenient locations to minimize littering at parking facilities. Trash bins exposed to rainfall are to be kept

closed. Litter is picked-up daily by AMPCO in the parking lots at the Sacramento International Airport. Litter is picked-up on an as-needed basis at Mather and Executive Airports.

#### 4.2.2 Scheduled Maintenance

<u>Automotive Fluid-Contaminated Surfaces</u> – Surfaces with heavy accumulations of automotive fluids that cannot be thoroughly cleaned using manual application of absorbent are to be cleaned using other methods. The recovered material will be disposed of as a hazardous waste.

<u>Street Sweeping</u> – Parking facilities with significant sediment, vegetation, and litter problems are to be swept prior to October 1.

<u>Landscape Maintenance</u> – Unstable landscaped areas exposed to rainfall or irrigation water may be subject to erosion and be a source of sediment pollution. Sediment erosion will be investigated and the cause corrected.

Oil/Water Separators and Sediment Traps – The oil/water separators and sediment traps at the Sacramento International Airport are pumped-out at least one time per year before the rainy season.

## 4.3 Parking Lot Surface Repairs

The following best management practices will be implemented during parking lot surface repairs:

- Pre-heat, transfer or load hot bituminous material away from storm drain inlets.
- Apply concrete, asphalt and seal coat during dry weather to prevent contamination of stormwater runoff.
- Cover and seal nearby storm drain inlets and manways before applying seal coat, slurry seal, etc. Leave covers in place until job is complete and until all water from emulsified oil sealants have drained or evaporated. Remove any debris surrounding covered manways and storm drains.
- Conduct routine sweeping for dust control. If water must be applied for dust control, protect storm drain inlets and prevent runoff from entering the drainage system.
- Place pans or absorbent material under paving equipment when not in use to catch drips and leaks.

#### 5.0 Education

For educational awareness, parking facility storm drain inlets in tenant areas and SCAS operational areas will either be paint stenciled with the statement "No Dumping! Flows to River" or have a placard "No Dumping —Drains to River." Although tenant areas are not a part of the parking facilities stormwater management program, SCAS believes that the most benefit would be realized in providing educational information in the tenant areas and SCAS operational areas rather than the traveler and employee parking lots. The storm drain inlets within any of the gravel parking lots will not be able to be paint stenciled or have a placard since the surface is comprised of loose material that neither the paint nor placard would permanently adhere to.

## 6.0 Annual Reporting

SCAS will document compliance activities for the previous fiscal year (July 1 through June 30) and submit an annual report to DWR, Stormwater Quality Program by August 1 of each year. Activities will be documented based on Table 2.

Number				Alexandra a Billiana	4 - 1		
Number				Number Main	tained		
1		Sw	eeping	Automot	ive Fluids		
spected	Trash	Hand	Machine	Manual Application	Mechanical Application	Landscape	Total
						!	
					1		
eanout c	of oil/w	ater sei	parators a	nd sediment	traps		
	eanout c	eanout of oil/wa			Application	eanout of oil/water separators and sediment traps	Application Application

## 7.0 Appendices

#### Appendix A

### **Municipal Stormwater Permit Background**

The County of Sacramento (County) has a National Pollutant Discharge Elimination System (NPDES) permit that regulates storm discharges from drainage systems that are designed to by-pass the pretreated combined sewer-stormwater system and flow directly to Waters of the State. We refer to this permit as the Municipal Separate Storm Sewer System Permit (MS4 Permit).

The County's MS4 Permit was issued in 1990 under Phase I stormwater permitting, at which time the Central Valley Regional Water Quality Control Board (RWQCB) adopted NPDES storm water permits for medium (serving a population between 100,000 and 250,000) and large (serving a population greater than 250,000) municipalities. Sacramento County was issued an MS4 permit jointly with the cities of Sacramento, Folsom and Galt. These permits are reissued upon expiration.

The most current version of the MS4 Permit was adopted on December 6, 2002 and expires on December 1, 2007. The cities of Citrus Heights, Elk Grove and Rancho Cordova have been added as co-permittees in this version of the MS4 Permit. The County Sheriff's Department currently provides police staffing for Citrus Heights (through June 30, 2006) and Rancho Cordova as well as stormwater quality services to these cities.

The MS4 Permit requires the County to develop and implement a stormwater management program with the goal of reducing the discharge of pollutants to the maximum extent practicable (MEP). MEP is the performance standard specified in Section 402(p) of the Clean Water Act.

The County's stormwater management program is described in the County's Stormwater Quality Improvement Plan (SQIP) that was submitted on July 1, 2003 to the RWQCB. The SQIP provides details of the County's stormwater management program and how the County intends to comply with the provisions of the MS4 Permit. The SQIP also describes what best management practices (BMPs) will be used to address certain program areas.

The MS4 Permit also requires that the County have adequate jurisdiction to prevent pollutant discharges to the storm drain system. Chapter 15.12 of County Code is the County's Stormwater Ordinance.

Activities conducted by, and facilities operated by, the County must comply with the Municipal Operations Element provisions of the MS4 Permit as well as the Stormwater Ordinance. The Sacramento County Airport System has been tasked to ensure that Sacramento County complies with the MS4 Permit. The County's MS4 Permit can be downloaded at:

http://www.waterboards.ca.gov/stormwtr/docs/sacramento r5 2002 0206.pdf

# Appendix B

	SCAS Parking	Lot Inventory- 2008	
AIRPORT	LOT#/NAME	LOT LOCATION	# PARKING SPACES
International	Lot 1	Hourly B Lot	135
	Lot 2	Hourly B Lot	251
	Lot 3	Hourly B Lot	216
	Lot 4	Hourly B Lot	149
	Lot 5	Hourly B Lot	238
	Lot 6	Hourly B Lot	271
	Lot 7	Hourly B Lot	113
	Lot 8	Daily B Lot	273
	Lot 9	Daily B Lot	561
	Lot 10	Daily B Lot	412
	Lot 11	Daily B Lot	1581
	Lot 12 Solar parking lot	Employee Lot	161 (closed for TMP construction 6/15/08)
	West employee lot	West Employee Lot	679 → 500 (TMP construction)
	Lot 19 Parking garage	roof (level 6)	885
	Lot 20	Daily A Lot	2815
	Lot 21	Daily A Lot	
	Lot 32	Employee Lot (between Admin & T-A)	107 → 13 (TMP construction)
	Lot 40	Economy Lot	1443
	Lot 41	Economy Lot	1364
	Lot 42	Economy Lot	2887
	Lot 43	Economy Lot	964
	Lot 44	Economy Lot	977
	Lot 50	Employee Lot	50
	Lot 51	Employee Lot	729
	Administration lot	Next to Admin. Bldg.	< 25 parking spaces
	General Aviation Lot FAA FIFO CESNA UAC Sky Chefs ARCO AM/PM Post Office (portion)		NA leased space utilized by SCAS tenants
	Post Office	Western portion of lot	<ul><li>25 parking spaces (as of Oct. 31, 2008)</li></ul>
	Air cargo lots	Landside	> 25 parking spaces
	Host Hotel lot		Closed July 31, 2008 for hotel demolition
	Car rental terminal lot		< 25 parking spaces
	Taxicab / SuperShuttle lot		> 25 parking spaces

	Shuttle bus parking lot		> 25 parking spaces
	Parks Maintenance Office		> 25 parking spaces
	East vault		> 25 parking spaces
	Terminal A toll plaza	Employee Lot	> 25 parking spaces
	Employee lot at Maintenance	Airfield- by wash rack and fueling station	> 25 parking spaces
	Airfield Maintenance building lot	Airfield- between buildings	> 25 parking spaces
	Surplus lot- equipment and vehicle storage	Airfield- outside security fence	> 25 parking spaces
	ARFF lot	Airfield	< 25 parking spaces
Mather	Administration lot	3745 Whitehead St.	> 25 parking spaces
	General Aviation Terminal	West of admin bldg	> 25 parking spaces
	Hanger 4677	East of admin bldg	> 25 parking spaces
	Hanger 4260	Inaccessible due to construction activity	> 25 parking spaces
	Equipment maintenance shop	10157 Missile Way	< 25 parking spaces
	Airfield maintenance shop	10321 Truemper Way (east side of building)	< 25 parking spaces
Executive	Lot for terminal building	6151 Freeport Blvd	> 25 parking spaces
	North parking lot	6151 Freeport Blvd	> 25 parking spaces
	South parking lot	6151 Freeport Blvd	> 25 parking spaces
Franklin		12480 Bruceville Rd.	< 25 parking spaces
McClellan	Parking facilities are not par	t of SCAS' operation and i	maintenance jurisdiction

# Appendix C



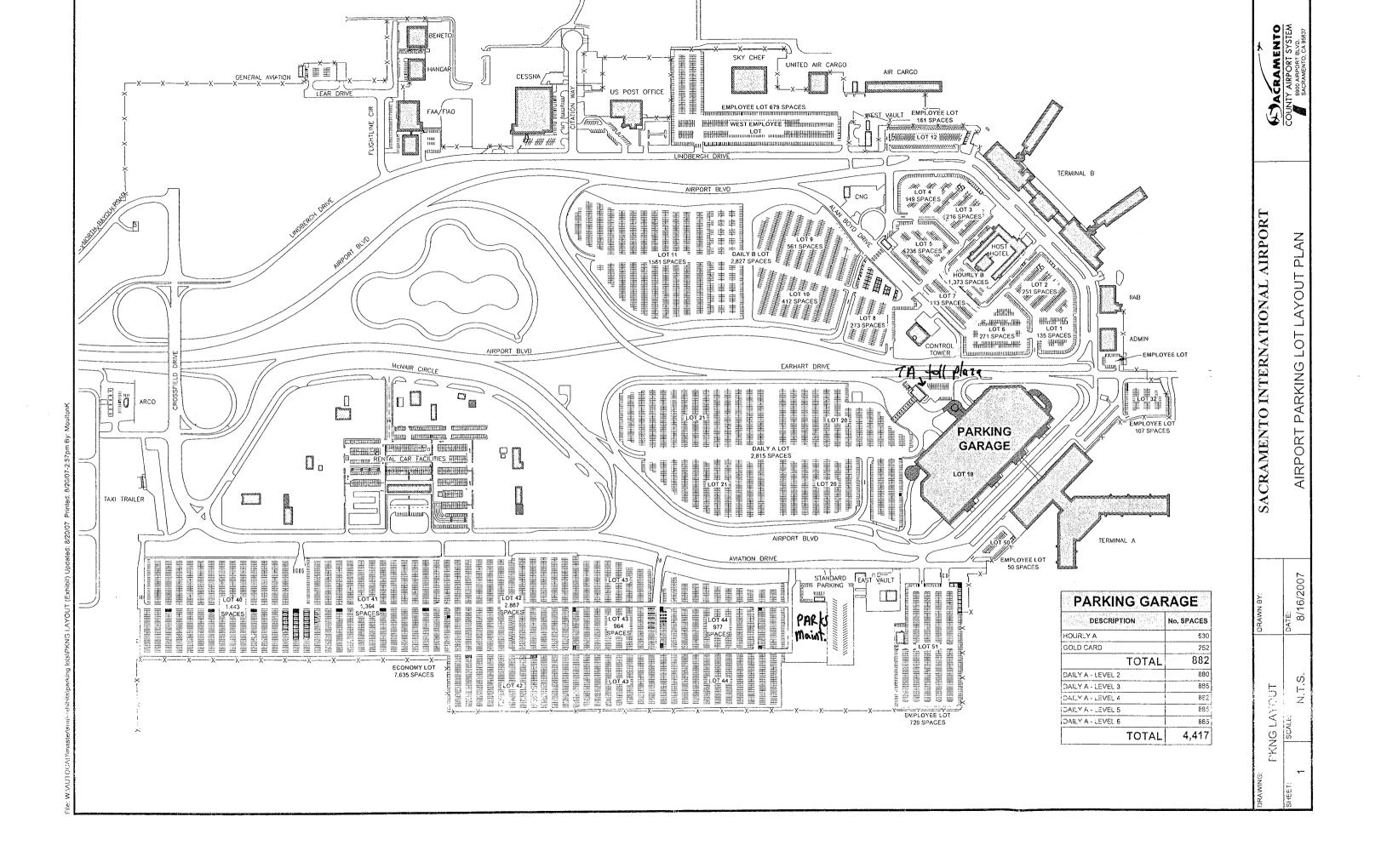
# Parking Facility Inspection and Maintenance Form Sacramento County Airport System

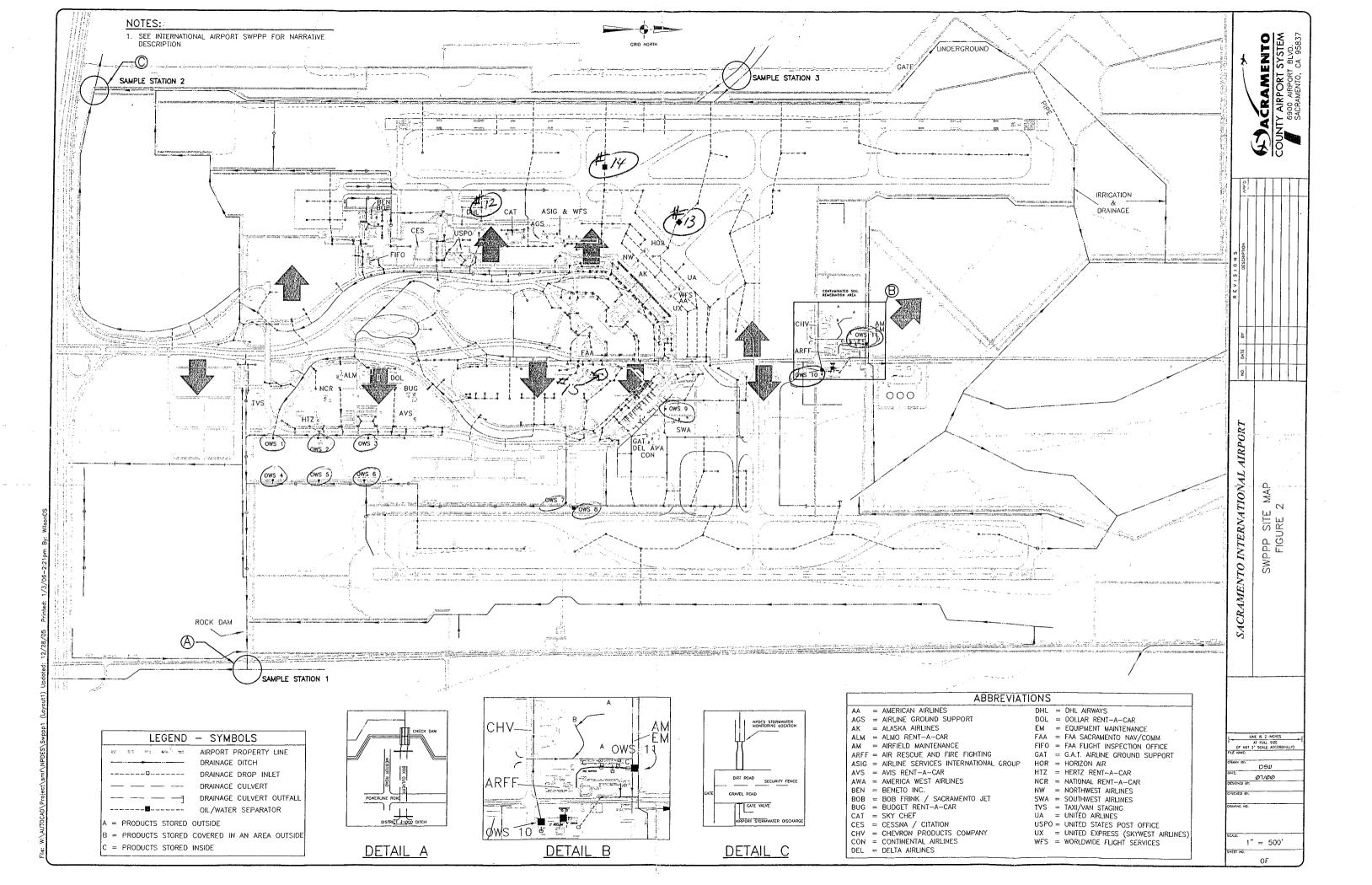
Date / Inspector(	3).				
Date / mapeotor(	3).		,,		
Airport Name:					
Parking Lot Name / Location:					
Address (if applicable):					
Facility Inspection and Maintenance:			Conduct mainter Maintenance conducted while onsite	nance activities pri Date Maintenance Scheduled	or to October 1 <sup>st</sup> Date  Maintenance  Completed
Are automotive observed on	ve fluid spots the parking lot?	☐ No ☐ Yes			
Is sediment of parking lot?	bserved on the	☐ No ☐ Yes			
3) Is trash/litter parking lot?	observed on the	☐ No ☐ Yes			
4) Are leaves/la clippings bloc storm drain is	cking any of the	☐ No ☐ Yes			
5) Are any storr clogged or no	m drain inlets onfunctional?	No Yes Quantity			
Comments/Note	es:				
					!

# 8.0 Figures

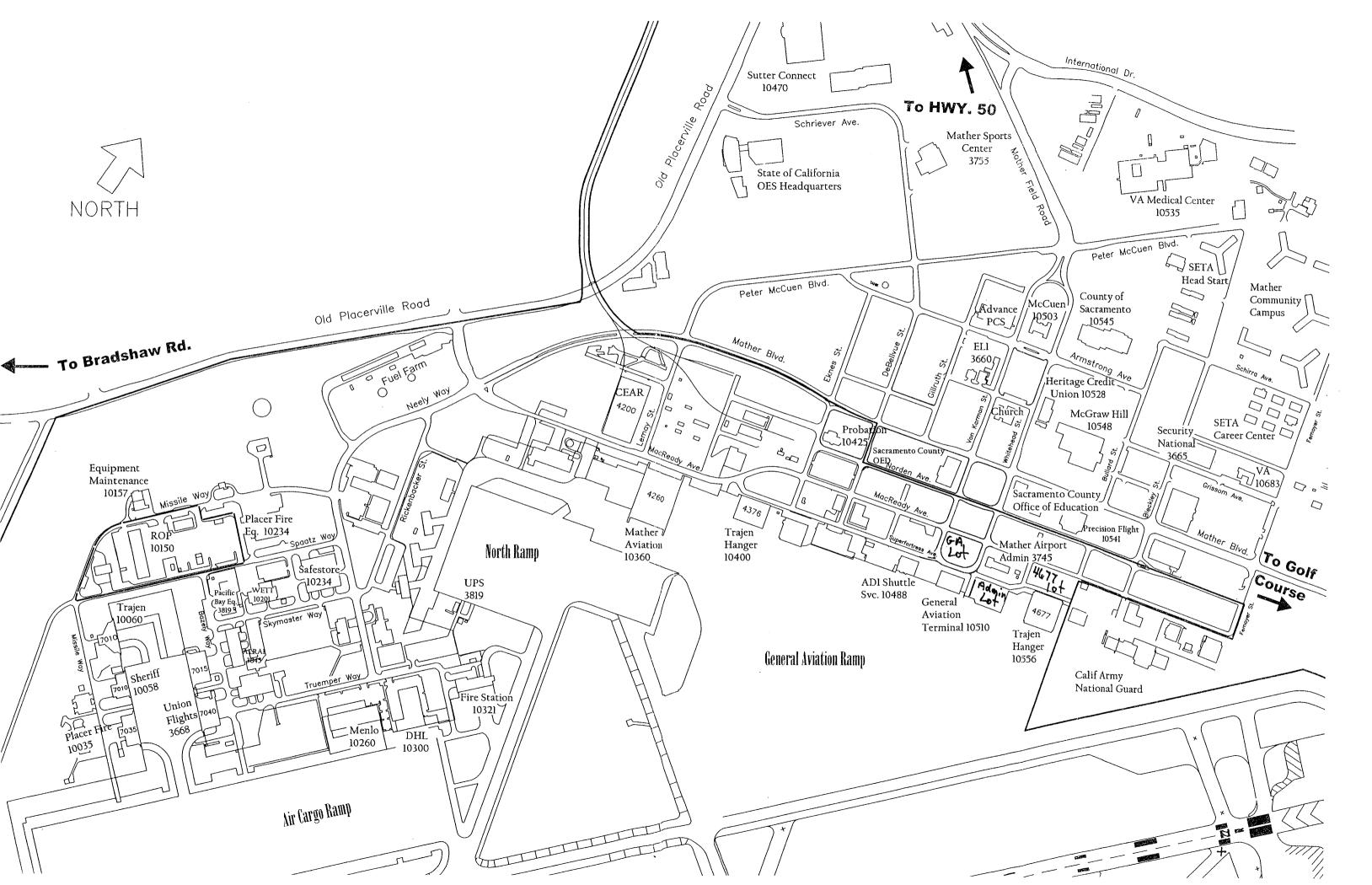
- A. Sacramento International Airport Parking Lot Layout Plan
- B. Sacramento International Airport—Location of Oil/Water Separators
- C. Mather Airport Layout Plan
- D. Executive Airport Layout Plan

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SACRAMENTO EXECUTIVE HELICOPTERS
AIRLINE TRANSPORT PROFESSIONALS (ATP)
KCRA 3 FLICHT OPERATIONS
KCXTV 10 FLICHT OPERATIONS
MYER PACIFIC INSURANCE SACRAMENT JET CENTER HANGAR (PATCO) CHP FLIGHT OPERATIONS SERCO AIR TRAFFIC CONTROL TOWER CHANGES RESTAURANT AMERICAN AFRIAL MAPPING SKYWALK EXECUTIVE FLYERS COUNTY AIRPORT SYSTEM
SOOD MIRPORT BLVD
SACRAMENTO, CA 95837 SACRAMENTO AVIATION MANAGEMENT HIRE AIR CHARTER NEXIS SQLUTIONS SACRAMENTO CITY COLLEGE (A&P) IVAN AIR GONZALES INTERIOR UPHOLSTERY TSQ SOLUTIONS BUILDING SACRAMENTO JET CENTER (PAI TOWER AVIATION SERVICES LLC HERTZ AUTO RENTAL PROLOGIC COMMUNICATIONS RALEY'S FLICHT OPERATIONS SUNSET AVIATION CARTWRIGHT AERIAL SURVERYS CALIFORNIA FISH AND GAME SHERIFF'S AIR SQUADRON RADMAN AERIAL SURVEYS AIRBORNE ELECTRONICS EXECUTIVE AUTOPILOTS EXECUTIVE AIR REPAIR AXIS JET MANAGEMENT HANNAN AVIATION QUALITY SERVICES SACJET HANGAR VACANT 12, = <del>,</del> 01 5 15 16 б 4 S ω 10319 10316 10323 10326 10333 10349 10318 10317 10302 10337 10303 10315 10324 10301 SACRAMENTO EXECUTIVE AIRPORT 10 HANCARS COMMERCIAL TENANTS œ ONLYDO Ø AUTO PARKING & BLAIR AVE. File: W:\AUTOCAD\master\sac\EXHIBIT\MAPS\EXH-FAC-TENANT-DIR (MAP) Updated: 5/18/05 Printed: 5/18/05-7:48am By: MouttonK 0 TOWER / 451h AVE. 24th STREET MOULTONK FREEPORT BOULEVARD 5/18/05 DRAWN BY: NORTH 43rd AVE. EXH-FAC-TENANT-DIR N.T.S. <u>КІІСНИЕВ ВО</u> 2 SCALE: ENCINAL AVE. DRAWING: X0X